

Electronic Engineering

Electronic Engineering Services

What we do:

We design electronic circuits and prototypes.

Why RJS Electronics:

We offer the expertise, and experience of a large engineering design house with the personal attention of a small business.

Who are our clients:

Our clients range in technical ability from startups with no expertise to highly skilled technical firms who are short staffed. We have designs in almost every industry,

- Consumer Electronics
- Industrial Controls
- Medical
- Bio Medical
- Instrumentation
- Telcom
- Catv
- Avionics / Military



Typical design flow:

- The client shares his requirements with us. All of these ideas and features MUST be committed to paper.
- Price and terms are agreed to.
- The schematic is designed with readily available components.
- BOM (Bill of Material) is generated and parts are ordered.
- The printed circuit board is designed with manual routing. PCB plot files, "gerbers" are generated and sent to any bare board house.
- Embedded code or FPGA design, if required is started while boards are being fabricated.
- Bare Printed Circuit Boards are manually assembled on site by the original designer.
- Assembled boards are debugged and tested against the written requirements.
- All design files are updated to reflect any modifications to the prototype circuit board.
- On final payment, you own all design files, schematic, BOM, PCB layout files, gerbers, embedded source code, FPGA design. Now any contract manufacture can manufacture your production boards.

Capabilities



Electronic Prototype Development

RJS Electronics can develop the electronics you need inside your product. Below are some of the expertise we offer. Please see our Portfolio for samples of past projects.



FPGA

Xilinx / Altera / Lattice

Schematic entry preferred

Experience with many tools, CUPL, OHDL, VHDL, Verilog, State Diagrams



Prototype Surface Mount Technology SMT Assembly

Low volume / prototype assembly.

Prototype assembly is done by the original designer.

Portfolio

Cholesterol Meter



Home cholesterol test system measures lipid values including total cholesterol, HDL cholesterol and triglycerides.

This new design significantly reduces BOB and manufacturing cost while drastically increasing the accuracy and reliability.

Oxygen Sensor Controller



Sometime research requires a special piece of instrumentation not currently available on the market.

This is a full featured, lab grade power supply. This power supply can regulate voltage to micro volt, or current to micro amp levels, with a Kelvin connection, and is configurable via RS232 PC communications interface.

For more information please visit <http://www.rjs-electronics.com>